

8165 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil + TC braid shield (65% coverage), drain wire, PVC jacket.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8165 0601000	305 MT	40.824 KG	CHROME C		5 FS PR #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
5	24	7x32	TC - Tinned Copper

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material
Datalene®	FPE - Foam Polyethylene

Inner Shield**Inner Shield Material:**

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: 7x32**Inner Shield Drain Wire Conductor Material:** TC - Tinned Copper**Outer Shield****Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 10.490 mm

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow

Pair Lay Length & Direction:

Lay Length (mm)	Twists/ft. (twist/m)
33.01987	29.529

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C
Non-UL Temperature Rating: 60°C (UL AWM Style 2493)
Bulk Cable Weight: 148.820 Kg/Km
Max. Recommended Pulling Tension: 564.921 N
Min. Bend Radius (Install)/Minor Axis: 107.950 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM
CEC/(UL) Specification: CM
AWM Specification: UL Style 2493 (300 V 60°C)
EU CE Mark: Yes
EU Directive 2000/53/EC (ELV): Yes
EU Directive 2002/95/EC (RoHS): Yes
EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004
EU Directive 2002/96/EC (WEEE): Yes
EU Directive 2003/11/EC (BFR): Yes
CA Prop 65 (CJ for Wire & Cable): Yes
MIL Order #39 (China RoHS): Yes
Plenum/Non-Plenum
Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
100

Nom. Capacitance Conductor to Conductor:

<http://www.vdom.com.cn>E-mail: sales@vdom.com.cn

TEL: 8610-6800 5160

Capacitance (pF/m)

41.0125

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

72.182

Nominal Velocity of Propagation:

VP (%)

78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

11.1554

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. 59.058 Ohm/km

C:

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

1.6 Amps per conductor @ 25°C

Notes (Overall)

Notes: Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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